

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently amended) A method to facilitate accessing communication
2 queues using a public network, comprising:
3 generating a message at a client;
4 formatting the message at the client in a publicly available format;
5 communicating the message across the public network to a web server;
6 receiving the message at the web server;
7 transforming the message to a database specific format, wherein the
8 database specific format is understood by a database server coupled to the web
9 server; and
10 passing the message to a queue within ~~a database~~ the database server
11 across a proprietary network; and
12 guaranteeing exactly once delivery of the message during propagation
13 from a first queue to a second queue, whereby exactly once delivery is ensured by
14 using a sequence number and not by a two phase commit.

1 2. (Original) The method of claim 1, wherein the publicly available format
2 includes extensible markup language (XML).

1 3. (Original) The method of claim 1, wherein communicating the message
2 across the public network includes communicating with one of, hypertext transfer

3 protocol (HTTP), simple mail transfer protocol (SMTP), and file transfer protocol
4 (FTP), whereby the message can be communicated across a firewall.

1 4. (Original) The method of claim 1, further comprising sending the
2 message from the queue to a recipient.

1 5. (Original) The method of claim 1, further comprising publishing the
2 message from the queue to a list of recipients.

1 6. (Currently amended) The method of claim 1, further comprising a
2 recipient requesting to receive a stored message from the queue.

1 7. (Currently amended) The method of claim 1, further comprising a
2 recipient registering to receive notification of new messages from the queue.

1 8. (Original) The method of claim 1, wherein the client is a second queue
2 in a second database.

1 9. (Original) The method of claim 1, wherein the public network is the
2 Internet.

1 10. (Original) The method of claim 1, further comprising authenticating
2 the client to the web server.

1 11. (Original) The method of claim 1, further comprising guaranteeing
2 transactional integrity of a transaction including multiple round trips, wherein
3 operations of the transaction are committed and aborted as a unit.

1 12 (Canceled) The method of claim 1, further comprising guaranteeing
2 exactly once delivery of the message during propagation from a first queue to a
3 second queue, whereby exactly once delivery is ensured by using a sequence
4 number and not by a two phase commit.

1 13. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method to facilitate accessing communication queues using a public network, the
4 method comprising:
5 generating a message at a client;
6 formatting the message at the client in a publicly available format;
7 communicating the message across the public network to a web server;
8 receiving the message at the web server;
9 transforming the message to a database specific format, wherein the
10 database specific format is understood by a database server coupled to the web
11 server; and
12 passing the message to a queue within ~~a database~~ the database server
13 across a proprietary network; and
14 guaranteeing exactly once delivery of the message during propagation
15 from a first queue to a second queue, whereby exactly once delivery is ensured by
16 using a sequence number and not by a two phase commit.

1 14. (Original) The computer-readable storage medium of claim 13,
2 wherein the publicly available format includes extensible markup language
3 (XML).

1 15. (Original) The computer-readable storage medium of claim 13,
2 wherein communicating the message across the public network includes

3 communicating with one of, hypertext transfer protocol (HTTP), simple mail
4 transfer protocol (SMTP), and file transfer protocol (FTP), whereby the message
5 can be communicated across a firewall.

1 16. (Original) The computer-readable storage medium of claim 13, the
2 method further comprising sending the message from the queue to a recipient.

1 17. (Original) The computer-readable storage medium of claim 13, the
2 method further comprising publishing the message from the queue to a list of
3 recipients.

1 18. (Currently amended) The computer-readable storage medium of claim
2 | 13, the method further comprising a recipient requesting to receive a stored
3 message from the queue.

1 19. (Currently amended) The computer-readable storage medium of claim
2 | 13, the method further comprising a recipient registering to receive notifications
3 from the queue.

1 20. (Original) The computer-readable storage medium of claim 13,
2 wherein messages are propagated from a first queue to a second queue.

1 21. (Original) The computer-readable storage medium of claim 13,
2 wherein the public network is the Internet.

1 22. (Original) The computer-readable storage medium of claim 13, the
2 method further comprising authenticating the client to the web server.

1 23. (Original) The computer-readable storage medium of claim 13, the
2 method further comprising proxying as a database user by the web server on
3 behalf of an Internet user.

1 24. (Currently amended) An apparatus to facilitate accessing
2 communication queues using a public network, comprising:
3 a generating mechanism that is configured to generate a message at a
4 client;
5 a formatting mechanism at the client that is configured to format the
6 message in a publicly available format;
7 a communicating mechanism that is configured to communicate the
8 message across the public network to a web server;
9 a receiving mechanism that is configured to receive the message at the
10 web server;
11 a transforming mechanism that is configured to transform the message to a
12 database specific format, wherein the database specific format is understood by a
13 database server coupled to the web server; and
14 a passing mechanism that is configured to pass the message to a queue
15 within a database the database server across a proprietary network; and
16 a guaranteeing mechanism that is configured to guarantee exactly once
17 delivery of the message during propagation from a first queue to a second queue,
18 whereby exactly once delivery is ensured by using a sequence number and not by
19 a two phase commit.

1 25. (Original) The apparatus of claim 24, wherein the publicly available
2 format includes extensible markup language (XML).

1 26. (Original) The apparatus of claim 24, wherein communicating the
2 message across the public network includes communicating with one of, hypertext
3 transfer protocol (HTTP), simple mail transfer protocol (SMTP), and file transfer
4 protocol (FTP), whereby the message can be communicated across a firewall.

1 27. (Original) The apparatus of claim 24, further comprising a sending
2 mechanism that is configured to send the message from the queue to a recipient.

1 28. (Original) The apparatus of claim 24, further comprising a publishing
2 mechanism that is configured to publish the message from the queue to a list of
3 recipients.

1 29. (Currently amended) The apparatus of claim 24, further comprising a
2 requesting mechanism at a recipient that is configured to request receiving a
3 stored message from the queue.

1 30. (Currently amended) The apparatus of claim 24, further comprising a
2 registering mechanism at a recipient that is configured to register to receive
3 notifications from the queue.

1 31. (Original) The apparatus of claim 24, wherein the client is a second
2 queue in a second database.

1 32. (Original) The apparatus of claim 24, wherein the public network is the
2 Internet.

1 33. (Original) The apparatus of claim 24, wherein exactly once delivery of
2 messages to a second queue is guaranteed across the public network, whereby the
3 public network handles recovery from network and database failures.

1 34. (Original) The apparatus of claim 24, further comprising an
2 authenticating mechanism that is configured to authenticate the client to the web
3 server.